




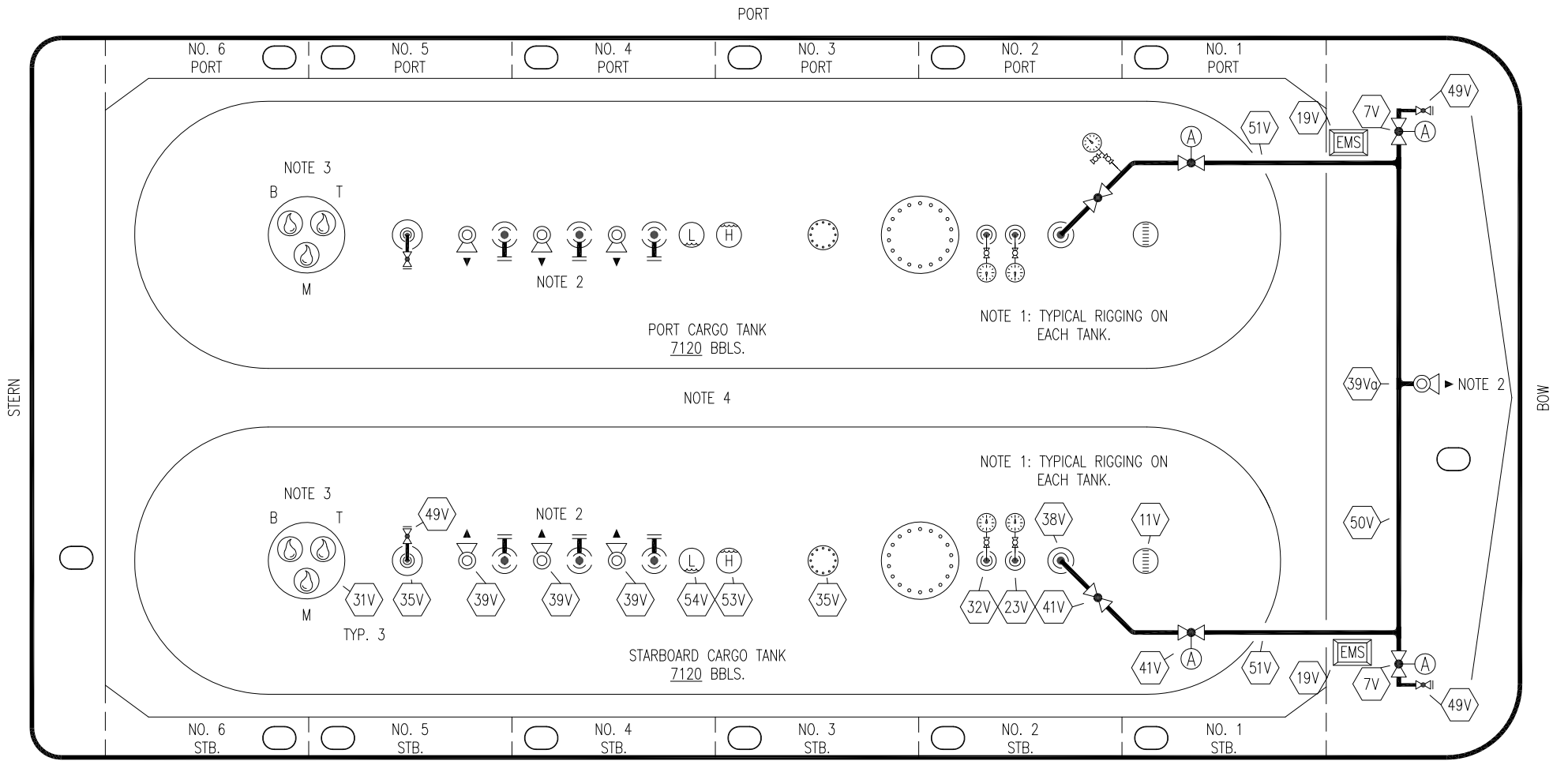
- | NO | DESCRIPTION |
|---|--|
| 1C | CARGO TANK VALVE |
| 5C | HEADER VALVE |
| 8C | RELIEF VALVE/STACK |
| 11C | BLEED OFF VALVE |
| 19C | CARGO HEADER |
| 26C | DRAIN (BLEED) VALVE |
| 30C | CARGO PIPELINE |
| 36C | PRESSURE GAUGE |
| 37C | CARGO DROP  |
| (A) | AIR ACTUATED AUTOMATIC VALVE |
|  | ABOVE DECK PIPING |

NOTE 1: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 2: CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON – EX: N/A

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/05/22	MRV	DDA	DR	REVISED PER CLIENT COMMENTS
0	10/11/11	JN	DDA		ISSUED FOR APPROVAL

 KIRBY INLAND MARINE	
CARGO PIPING FLOW DIAGRAM	
SCALE: NONE	CC 134
PAGE: 1 OF 3	REV. 1



NO	DESCRIPTION	NO	DESCRIPTION
7V	HEADER VALVE	49V	BLEED VALVE
11V	GAUGE STICK (MIDDLE)	50V	VAPOR HEADER
19V	EMERGENCY SHUT DOWN STATIONS	51V	VAPOR PIPELINE
23V	PRESSURE GAUGE	53V	HIGH LEVEL GAUGE
31V	SAMPLE STATIONS	54V	LOW LEVEL GAUGE
32V	TEMPERATURE GAUGE	—	ABOVE DECK PIPING
35V	NOZZLE W/BLIND	(A)	AIR ACTUATED AUTOMATIC VALVE
38V	VAPOR DROP OR PENETRATION		
39V	PRESSURE/VACUUM VALVE		
39Vq	STACK-PRESSURE/VACUUM VALVE		
41V	VAPOR TANK VALVE		

STARBOARD

NOTE 1: TYPICAL RIGGING ON EACH TANK
 NOTE 2: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 3: SAMPLES-T=TOP, M=MIDDLE, B=BOTTOM
 NOTE 4: CONDUIT BELOW GRATE FOR EMS.

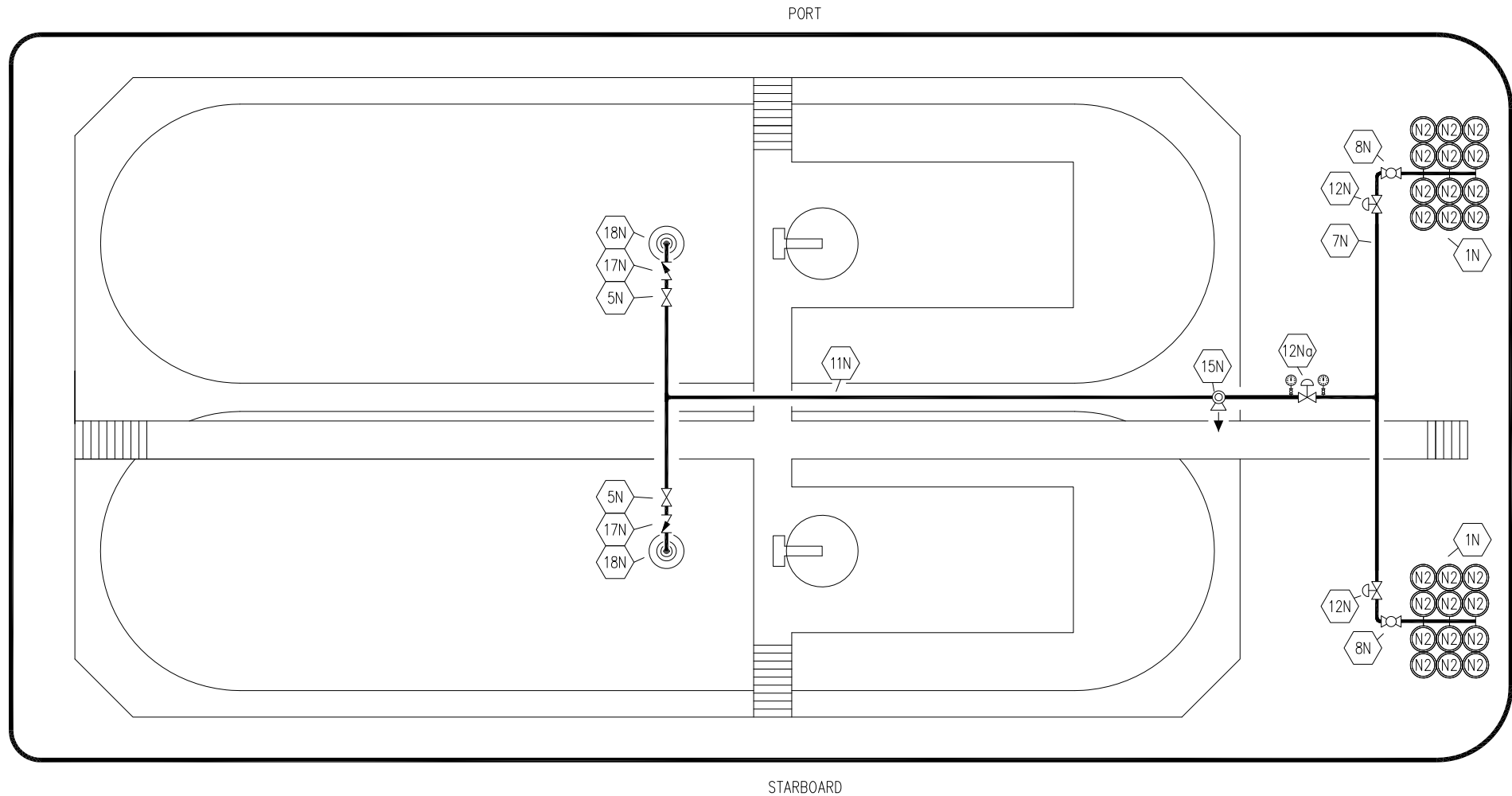
INGALLS IRON - EX: N/A


REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
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KIRBY INLAND MARINE

VAPOR
PIPING FLOW DIAGRAM

SCALE: NONE	CC 134
PAGE: 2 OF 3	1



- | NO | DESCRIPTION |
|------|---|
| 1N | NITROGEN BOTTLE RACK (12 PK.) |
| 5N | N2 SUPPLY VALVE |
| 7N | NITROGEN HEADER |
| 8N | N2 REGULATOR CONTROL VALVE |
| 11N | NITROGEN PIPELINE |
| 12N | HARRIS NITROGEN REGULATOR |
| 12No | FISHER NITROGEN REGULATOR |
| 15N | N2 RELIEF VALVE |
| 17N | N2 CHECK VALVE |
| 18N | N2 TANK PENETRATION  |

 ABOVE DECK PIPING

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
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0	10/11/11	JN	DDA		ISSUED FOR APPROVAL

KIRBY INLAND MARINE 

**NITROGEN
PIPING FLOW DIAGRAM**

SCALE: NONE
PAGE: 3 OF 3

CC 134

REV. **1**